

**Whole Tree Chipper-Trailer Mounted**

Whole Tree Chipper (Chipper), trailer mounted, drum type, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

**Chipper Proposed:**

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Non-Restrictive Clause: Any use of brand name or equal within this specification is to be considered a reference for the purpose of describing the standard of quality, performance, and characteristics desired. It is not intended to limit or restrict competition.

**The vendor must respond to each of the following statements.** Specifications listed are **minimum** requirements that must be met for a vendor to qualify for an award. A "YES" response means the vendor guarantees that they meet this requirement. A "NO" response means the vendor cannot meet the requirement and will not be considered. The vendor must supply printed literature that shows compliance with each requirement of the Equipment Specifications and, if on inspection, an item is found not to comply, the bid will be rejected.

**Descriptive literature shall be furnished to substantiate the details specified in the proposal package.**

**SPECIFICATIONS**

**General:** Rated for chipping whole trees up to 22 inches in diameter

**Comply Yes/No:** \_\_\_\_\_

**Power Unit:** Water-cooled, industrial diesel engine, 15-liter displacement, 540 horsepower, equipped with all standard engine equipment to include: hour meter, ammeter, coolant temperature and oil pressure gauges and rated by OEM for wood chipping operations

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Displacement (liters): \_\_\_\_\_ Horsepower: \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Clutch:** Hydraulically engaged, wet type, microprocessor-controlled, designed for wood chipping operations

Make: \_\_\_\_\_ Model: \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Electrical System:** Composed of a 100-amp alternator, and two (2) equal size, maintenance free, batteries with a starting power of 1400 cold cranking amps (CCA) each.

Alternator:

Manufacturer: \_\_\_\_\_ Rating (Amps): \_\_\_\_\_

Battery:

Manufacturer: \_\_\_\_\_ Power (CCA): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Diesel Fuel Tank:** One (1) 130-gallon capacity lockable tank with sight gauge, mounted to resist shock and vibration

Diesel Fuel Tank Capacity (Gallons): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Hydraulic Tank:** One (1) 85-gallon capacity lockable, tank, mounted to resist shock and vibration

Hydraulic Tank Capacity (Gallons): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Hydraulic System:** Open center design with gear pump, 1 micron return filter and 100-micron suction filter

Design Type (Open/Closed Center): \_\_\_\_\_

Return Filter (Microns): \_\_\_\_\_ Suction Filter (Mesh): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Chipper Drum:** Consisting of a staggered six (6) pocket design and measuring 36 inches in diameter with a 37-inch width, and a 6-inch shaft diameter. Constructed from 1-inch-thick abrasion resistant, hot rolled steel.

Drum Diameter (Inches): \_\_\_\_\_ Drum Width (Inches): \_\_\_\_\_

Shaft Diameter (Inches): \_\_\_\_\_ Wall Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Drum bearings:** Industrial application, pillow block style, greaseable, replaceable bearings

Bearing Type: \_\_\_\_\_

Make: \_\_\_\_\_ Model: \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Drum Knives:** Six (6) pocketed knives-10 inches long, 5 inches wide and 5/8 inch thick

Quantity: \_\_\_\_\_ Width (Inches): \_\_\_\_\_

Length (Inches): \_\_\_\_\_ Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Anvil:** 3/4-inch thick, removable, adjustable steel cutting anvil

Anvil Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Chipper Hood:** Constructed from 3/8-inch-thick steel plate with a fold back design for easy access to drum. Chipper hood shall include a removable, lockable pin for securing the hood in the lowered position.

Hood Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Chipper Base:** Constructed from 3/8-inch-thick steel plate

Base Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Throat Bottom:** Constructed from 3/8-inch-thick steel plate

Throat Bottom Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Throat Sides:** Constructed from 1/2-inch-thick steel plate

Throat Side Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Belly Band:** Constructed from 1/2-inch thick AR400 steel plate and shall be replaceable.

Belly Band Thickness (Inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Feed System:** Hydraulically driven auto-feed system with integrated controls for monitoring feed rates and hydraulic pressures to include: a chain style infeed conveyor table with a length of 7 feet 6 inches and a width of 36 inches, a top feed wheel with top compression measuring 36 inches wide and 27 inches in diameter, and a throat opening of 24 inches tall by 30 inches wide.

Conveyor Dimensions (Feet and Inches):

Length: \_\_\_\_\_

Width: \_\_\_\_\_

Throat Opening Dimensions: (Feet and Inches):

Height: \_\_\_\_\_

Width: \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Discharge Chute:** Stationary discharge chute with hydraulic chip deflector capable of a side discharge ranging from 0 to 90 degrees from center to either side

Maximum Side Discharge Angle from Center (Degrees): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Trailer:** Pintle (preferred) or fifth wheel hitch configuration, 40,000-pound GVWR with steel frame construction consisting of two (2) dual-wheel axles rated at 20,000 pounds GAWR each with air brakes and dimensions of 12 feet high, 8 foot 6 inches wide, and 32 feet long

Weight Ratings (Pounds):

GVWR: \_\_\_\_\_

GAWR: \_\_\_\_\_

Dimensions (Feet and Inches):

Height: \_\_\_\_\_ Width: \_\_\_\_\_ Length: \_\_\_\_\_

Hitch Type (Pintle/Fifth Wheel): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Accessories/Equipment:** All standard equipment, lights, and reflectors to meet all applicable DOT and ICC regulations to include dual stabilizers, front and rear (hydraulically operated), four (4) each; Anti-theft locks for all boxes and tanks; Radio Remote control with tethered back-up; Mud flaps; Seven-way electrical connector; and all necessary hoses, fittings, attachments, brackets and miscellaneous hardware required to connect trailer air brakes to truck air supply

**Comply Yes/No:** \_\_\_\_\_

**Paint:** Manufacturer's standard color

**Comply Yes/No:** \_\_\_\_\_

#### **ADDITIONAL REQUIREMENTS**

**Service:** Shall be delivered fully assembled and ready to operate. Factory-trained dealer representative is to inspect unit upon delivery and provide receiving MDOT equipment manager with information on operational, service, and maintenance requirements.

Bidder shall maintain a representative inventory of replacement parts and service facilities as well as all necessary diagnostic tools/equipment/software and software licenses needed for diagnosis, repair, service, and maintenance.

**Acknowledge Yes/No:** \_\_\_\_\_

**Warranty:** Clearly stated terms and conditions of all manufacturer warranties shall be included with the bid package. Any and all materials, specialty equipment, or accessories that prove defective in normal operation within the warranty period shall be replaced or repaired by the manufacturer free of any and all cost to MDOT, including all material, labor, and transportation costs. Warranty replacement and/or repairs shall be furnished promptly by the successful bidder within a time not to exceed thirty (30) calendar days. **The bidder shall provide written assurance with the bid package regarding warranty repairs.**

The delivering dealer will have sole warranty responsibility (**all components**) for the first ninety (90) calendar days after acceptance of equipment.

The manufacturer shall provide, with the bid package, a list of warranty service locations within the State of Mississippi for all components of the Chipper (body, chassis, electrical, etc.) which may need warranty repair beyond the first ninety (90) calendar days.

**Acknowledge Yes/No:** \_\_\_\_\_

**Workmanship:** Workmanship throughout shall conform to the highest standard of commercially accepted practice for the class of work and shall result in a neat and finished appearance. The design which the manufacturer proposes must be of substantial and durable construction in all respects.

All parts shall be new. Used, reconditioned, or obsolete parts will not be accepted.

**Acknowledge Yes/No:** \_\_\_\_\_

**Parts Availability:** Dealer name and contact information located closest to the point of delivery:

Dealer Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

**Acknowledge Yes/No:** \_\_\_\_\_

**Tests and Testing:** The complete unit and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer.

Prior to acceptance by MDOT, the manufacturer shall service and adjust the unit for operation.

**Acknowledge Yes/No:** \_\_\_\_\_

**Literature:**

**Technical manuals:** Operator's manual, service/maintenance manual, and parts book are to be made available in both hard copy and electronic (PDF file format on USB flash drive) versions. One set of technical manuals shall be provided with each unit upon delivery. Additional manuals may be ordered later.

**Technical service bulletins:** Successful bidder shall provide TSBs (technical service bulletins) for all equipment delivered to MDOT as they are published, regardless of the date of delivery. TSBs may be furnished in paper or electronic format and shall be updated regularly.

The following additional information shall be provided by the vendor at time of delivery (electronically if possible):

- Manufacturer's recommended service/preventive maintenance intervals
- Recommended fluids, lubricants, and their SAE equivalents

**Two (2) copies of descriptive literature shall be furnished to substantiate the details specified in proposal.**

**Acknowledge Yes/No:** \_\_\_\_\_

**Certification:** The manufacturer(s) shall furnish certification that this machine meets or surpasses current U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Regulations, U.S. Department of Transportation Federal Motor Vehicle Safety Standards (FMVSS), and any other applicable Federal regulations.

**Acknowledge Yes/No:** \_\_\_\_\_

**Vehicle Title or Certificate of Origin:**

**Assignment:** State of Mississippi/DFA – 941

**Mailing address:** Mississippi Department of Transportation, 9301  
P.O. Box 1850  
Jackson, MS 39215

**Acknowledge Yes/No:** \_\_\_\_\_

**Lienholder:** Upon award, if MDOT issues a **Notice to Proceed** instead of a **Purchase Order**, the vehicle is being purchased through the State's Master Lease Purchase Program, and the following shall be shown as the **1<sup>st</sup> Lienholder on the Title Application:**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
AMD SPECIFICATION NUMBER 022-WTC-TM-2050/112  
DATE: 03-22 (022-22) PAGE 6 OF 6

U.S. Bank National Association  
Attention: Jacqueline McNeil  
6810 Crumpler Blvd., Suite 200  
Olive Branch, MS 38654

Lienholder Number: 90018867500

**Acknowledge Yes/No:** \_\_\_\_\_